

**ABSTRACT**

A method and system of processing castings is provided in which one or more castings are deposited into a mobile furnace and moved from one station to another of a multi-station casting processing system. The interior of the mobile furnace is heated so as to maintain the temperature of the casting within a desired range of temperatures. The multi-station casting processing system may include a casting machine, a fluidized bed and a quench tank. The method may include transferring a casting into the mobile furnace and moving the furnace from one station to another.